FACILITY CONDITION ASSESSMENT FORMAT

Facility Condition Assessment Outline

1. Facility Condition Assessment

- 1.1 Facility Function and Description
 - 1.1.1 Architectural/Civil/Structural Systems
 - 1.1.2 Mechanical/HVAC Systems
 - 1.1.3 Electrical Systems
- 1.2 Site Plan
- 1.3 Floor Plan
- 1.4 FCA Procedure
 - 1.4.1 Scope and Purpose
 - 1.4.2 FCA Team Responsibilities
 - 1.4.3 Report Criteria
- 1.5 Overall Building Condition Ranking
- 1.6 Architectural FCA Findings
 - 1.6.1 Interior
 - 1.6.2 Exterior
 - 1.6.3 Roofs
 - 1.6.4 Civil
 - 1.6.5 Structural
- 1.7 Mechanical FCA Findings
 - 1.7.1 Pumps
 - 1.7.2 Shop Air Compressors
 - 1.7.3 Steam Stations
 - 1.7.4 Hot Water Converters
 - 1.7.5 Steam System Piping
 - 1.7.6 Hot Water Piping
 - 1.7.7 Potable Water Piping
 - 1.7.8 Doors
 - 1.7.9 Hoists and Cranes
 - 1.7.10 Elevators
 - 1.7.11 Sprinkler Systems
 - 1.7.12 Safety Shower/Eyewash Units
 - 1.7.13 Other Mechanical Equipment
- 1.8 HVAC FCA Findings
 - 1.8.1 Control Air Compressors
 - 1.8.2 Air Dryers
 - 1.8.3 Air Handling Units, Computer Room Units, DXAC Units, Heating Vent Units, Supply/Return Air Fans
 - 1.8.4 Chillers
 - 1.8.5 Cooling Towers
 - 1.8.6 Boilers
 - 1.8.7 Humidifiers
 - 1.8.8 Dehumidifiers
 - 1.8.9 Exhaust Fans

- 1.8.10 Unit Heaters
- 1.8.11 Vent Hoods
- 1.8.12 Dust Collector
- 1.8.13 Other HVAC Equipment

1.9 Electrical FCA Findings

- 1.9.1 Motor Control Centers
- 1.9.2 Panel Boards
- 1.9.3 Switchboards
- 1.9.4 Manual Transfer Switches
- 1.9.5 Automatic Transfer Switches
- 1.9.6 Bypass Transfer Switches
- 1.9.7 Field Interface Devices
- 1.9.8 Fire Alarm System Control Panels
- 1.9.9 Emergency Generators
- 1.9.10 Emergency Lights
- 1.9.11 Lightning Protection Systems
- 1.9.12 Unit Power Centers
- 1.9.13 Variable Frequency Drives
- 1.9.14 Power Distribution Units
- 1.9.15 Battery Banks
- 1.9.16 Oxygen Detection Systems
- 1.9.17 Carbon Dioxide Monitoring Systems
- 1.9.18 Hydrogen Detection Systems
- 1.9.19 Refrigerant Monitoring Systems
- 1.9.20 Uninterruptible Power Supplies
- 1.9.21 Other Electrical Equipment
- 1.10 Synopsis of FCA Actions and Recommendations
- 1.11 Safety Impact from Failure of Equipment in **Poor/Replace** Condition
- 1.12 Energy Recommendations
- 1.13 Estimated Costs
- 1.14 FCA Detail Summary

2. Reliability Centered Maintenance (RCM) Analysis

- 2.1 Description/General Function
- 2.2 Background
- 2.3 Electrical Systems
 - 2.3.1 Motor Control Centers
 - 2.3.2 Transformers
 - 2.3.3 Panel Boards
 - 2.3.4 Manual Transfer Switches
 - 2.3.5 Automatic Transfer Switches
 - 2.3.6 Bypass Transfer Switches
 - 2.3.7 Fire Alarm System Control Panels
 - 2.3.8 Emergency Generators

- 2.3.9 Emergency Lights
- 2.3.10 Lightning Protection Systems
- 2.3.11 Unit Power Centers
- 2.3.12 Variable Frequency Drives
- 2.3.13 Power Distribution Units
- 2.3.14 Battery Banks
- 2.3.15 Oxygen Detection Systems
- 2.3.16 Carbon Dioxide Monitoring Systems
- 2.3.17 Hydrogen Detection Systems
- 2.3.18 Refrigerant Monitoring Systems
- 2.3.19 Uninterruptible Power Supplies
- 2.3.20 Other Electrical Equipment

2.4 Mechanical/HVAC Equipment

- 2.4.1 Air Compressors
- 2.4.2 Air Dryers
- 2.4.3 Air Handling Units, Computer Room Units, Heating Vent Units, DXAC Units, Supply/Return Air Fans
- 2.4.4 Chillers
- 2.4.5 Cooling Towers
- 2.4.6 Boilers
- 2.4.7 Humidifiers
- 2.4.8 Dehumidifiers
- 2.4.9 Exhaust Fans
- 2.4.10 Vent Hoods
- 2.4.11 Unit Heaters
- 2.4.12 Steam System Piping
- 2.4.13 Hot Water Piping
- 2.4.14 Hot Water Converters
- 2.4.15 Pumps
- 2.4.16 Steam Stations
- 2.4.17 Potable Water Piping
- 2.4.18 Other Mechanical/HVAC Equipment

2.5 Miscellaneous Systems

- 2.5.1 Doors
- 2.5.2 Hoists and Cranes
- 2.5.3 Elevators
- 2.5.4 Sprinkler Systems
- 2.5.5 Dust Collectors
- 2.5.6 Refrigeration Units
- 2.5.7 Roofs
- 2.5.8 Safety Shower/Eyewash Units
- 2.5.9 Other Miscellaneous Equipment

3. Appendix